

Notice of Allowability	Application No.	Applicant(s)	
	09/890,143	YAMAMOTO, MASAKI	
	Examiner	Art Unit	
	Chih-Cheng Glen Kao	2882	1
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communic GHTS. This application is sub-	is application. If not inclucation will be mailed in du	ded e course. THIS
1. This communication is responsive to <u>11/7/06</u> .			•
2. The allowed claim(s) is/are 8-11 and 28-30.			
 3.	e been received. E been received in Application Notements have been received in of this communication to file a literal Note the attached EXAMIRES reason(s) why the oath or dest be submitted. Est be submitted. Est of Patent Drawing Review (con's Pa	No In this national stage application at the reply complying with the resolution is deficient. PTO-948) attached the Office action of drawings in the front (not the last of	requirements NOTICE OF he back) of
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 11/07/06 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sum Paper No./Ma 7. ⊠ Examiner's An	mal Patent Application (Pimary (PTO-413), ail Date nendment/Comment atement of Reasons for A	

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or 1. additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David Pitcher on January 3, 2007.

2. The application has been amended as follows:

> In claim 8, line 1, insert -- that reflects radiation in a range from vacuum ultraviolet through X-ray,-- after "optical element".

> In claim 11, line 1, insert --that reflects radiation in a range from vacuum ultraviolet through X-ray-- after "optical element".

Reasons for Allowance

- 3. Claims 8-11 and 28-30 are allowed. The following is an examiner's statement of reasons for allowance.
- 4. Regarding claim 8, prior art fails to disclose or fairly suggest a method for forming an optical element that reflects radiation in a range from vacuum ultraviolet through X-ray, including the steps of forming on a substrate a multilayer film consisting of a stack of alternating layers of high refractive index material and low refractive index material and adjusting a

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claim.

wavefront phase of emerging rays by cutting away a portion of the multilayer film stack in accordance with an amount of adjustment of the wavefront phase, in combination with all the limitations in the claim. Claims 9, 10, and 28-30 are allowed by virtue of their dependency.

- 5. Regarding claim 11, prior art fails to disclose or fairly suggest a method for forming an optical element that reflects radiation in a range from vacuum ultraviolet through X-ray, including the steps of forming on a substrate a multilayer film consisting of a stack of alternating layers of high refractive index material and low refractive index material and cutting away a portion of a correction film and the multilayer film stack in accordance with an amount of adjustment of a wavefront phase of emerging rays, in combination with all the limitations in the
- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Cheng Glen Kao whose telephone number is (571) 272-2492. The examiner can normally be reached on M - F (9 am to 5 pm).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ed Glick can be reached on (571) 272-2490. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

gk

EDWARD J. GLICK
SUPERVISORY PATENT EXAMINER

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